**Practical-1C: Simple Columnar Transposition Encryption Technique**

**Code:**

package com.mycompany.tycs.rehmah;

import java.util.Scanner;

public class Prac3B {

public static void main(String[] args) {

String text; int key1; int key[] = new int[4];

Scanner sc = new Scanner(System.in);

System.out.println("Enter a String: ");

text = sc.nextLine();

char a[][] = new char[50][4];

int l = text.length();

int row;

if(l%4==0){row = l/4;}

else{row = (l/4)+1;}

int k = 0;

System.out.println("\nMatrix: ");

for(int i = 0; i<row; i++){

for(int j = 0; j<4; j++){

a[i][j]=text.charAt(k);

k++;

System.out.print(a[i][j] + " ");

if(l==k){break;}

}

System.out.println("\n");

}

String s = "";

System.out.println("Enter a key: ");

for(int i = 0; i<4; i++){ key[i] = sc.nextInt();}

for(int i = 0; i<4; i++){

key1 = key[i];

for(int j = 0; j<row; j++){

String c = a[j][key1] + " ";

if(c!="\0"){s =s+c;}

}

}

System.out.println("Cipher Text: " + s);

}

}

**Output:**

Enter a String:

hello world

Matrix:

h e l l

o w o

r l d

Enter a key:

3

0

2

1

Cipher Text: l o h o r l w d e l